GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:2349
ANSWERED ON:16.03.2017
Preservation of Ground Water
Baker Shri George;Hay Prof. Richard

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) the percentage of ground water being used for drinking vis-a-vis irrigation purposes in the country, State/UT-wise;

(b) whether the Government is aware that the level of ground water in the country is depleting, the surface water is getting polluted and the rain water is not being properly protected;

(c) if so, the details and the facts thereof along with the reasons therefor;

(d) the steps taken by the Government to preserve ground/surface/rain water in the country so far; and

(e) whether the Government is planning to use the treated water for irrigation in the country and if so, the details thereof along with the time by which it is likely to be introduced?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION
(DR. SANJEEV KUMAR BALYAN)

(a) As per the latest assessment of Ground Water Resources of the country jointly carried out by Central Ground Water Board (CGWB) and State Ground Water Departments, as on March- 2013, the State/UT-wise details of percentage of ground water being used for drinking and irrigation purposes are given at at Annexure -I.

(b) & (c) Ground water is primarily being used for irrigation, drinking and industrial purposes due to growing urbanization, industrialization and population, as a result of which, ground water levels in various parts of the Country are declining. State-wise details are given at Annexure − II.

Central Water Commission (CWC) is monitoring water quality at 396 key locations covering 246 rivers. Number of stations having concentration more than permissible limits of BIS are shown in Annexure- III.

(d) Steps taken by the Government for conservation of surface and ground water are available at the following URL http://mowr.gov.in/writereaddata/GW_Depletion.pdf

(e) One of the objectives, inter-alia, of Pradhan Mantri Krishi Sinchai Yojna (PMKSY) is to explore the feasibility of reusing treated municipal waste water for peri-urban agriculture and attract greater private investment in precision irrigation system.

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ANNEXURE - I

Annexure referred in reply to Lok Sabha Unstarred Question No. 2349 dated 16.03.2017 regarding "Preservation of Ground Water"

State / UT Wise Percentage of Ground Water Draft for Irrigation and Domestic & Industrial Use (As on 31st March 2013)

Sl. No. States / Union Territories
Irrigation Draft (bcm)
Percentage of irrigation draft with respect to Total Draft (%) Domestic and industrial Draft
(bcm) Percentage of Domestic & Industrial Draft with respect to Total Draft
(%) Total Draft
(bcm)
States
1 Andhra Pradesh 7.29 89.97 0.81 10.03 8.10
2 Arunachal Pradesh 0.002 23.32 0.007 76.68 0.01
3 Assam 4.06 85.65 0.68 14.35 4.74
4 Bihar 10.36 81.38 2.37 18.62 12.73
5 Chhattisgarh 3.76 85.44 0.64 14.56 4.40
6 Delhi 0.14 35.49 0.25 64.51 0.39
7 Goa 0.02 39.94 0.03 60.06 0.05

8 Gujarat 12.30 91.54 1.14 8.46 13.44
9 Haryana 13.32 95.70 0.60 4.30 13.92
10 Himachal Pradesh 0.16 60.18 0.11 39.82 0.27
11 Jammu & Kashmir 0.20 16.86 0.98 83.14 1.18
12 Jharkhand 0.63 46.47 0.72 53.53 1.35
13 Karnataka 8.76 89.83 0.99 10.17 9.76
14 Kerala 1.18 44.85 1.45 55.15 2.63
15 Madhya Pradesh 17.95 92.72 1.41 7.28 19.36
16 Maharashtra 15.93 93.31 1.14 6.69 17.07
17 Manipur 0.004 83.79 0.001 16.21 0.004
18 Meghalaya 0.0080 66.67 0.0040 33.33 0.0120
19 Mizoram 0 0.00 0.00104 100.00 0.00104
20 Nagaland 0.00 0.00 0.03 100.00 0.03
21 Odisha 4.14 82.60 0.87 17.40 5.02
22 Punjab 34.05 97.80 0.77 2.20 34.81
23 Rajasthan 13.79 87.78 1.92 12.22 15.71
24 Sikkim - - - -
25 Tamil Nadu 12.98 90.39 1.38 9.61 14.36
26 Telangana 7.00 90.18 0.76 9.82 7.77
27 Tripura 0.093 56.56 0.072 43.44 0.165
28 Uttar Pradesh 48.35 91.64 4.41 8.36 52.76
29 Uttarakhand 0.84 85.15 0.15 14.85 0.99
30 West Bengal 10.84 91.53 1.00 8.47 11.84
Total States 228.16 90.23 24.71 9.77 252.87
Union Territories
1 Andaman & Nicobar 0.0001 2.70 0.0035 94.59 0.0037
2 Chandigarh 0 0.00 0 0.00 0
3 Dadara & Nagar Haveli 0.008 36.74 0.013 63.26 0.020
4 Daman & Diu 0.008 79.96 0.002 20.04 0.010
5 Lakshdweep 0.00000 0.00 0.00237 100.00 0.00237
6 Puducherry 0.124 80.77 0.029 19.23 0.153
Total UTs 0.139 73.45 0.050 26.50 0.189
Grand Total 228.30 90.22 24.76 9.78 253.06

BCM Billion Cubic Meters

ANNEXURE - II

Annexure referred in reply to Lok Sabha Unstarred Question No. 2349 dated 16.03.2017 regarding "Preservation of Ground Water"

State-wise Decadal Water Level Fluctuation with Mean [Pre-monsoon (2006 to 2015] and Pre-monsoon 2016
S. No. Name of State No. of wells Analysed Rise Fall

No % No %
1 Andhra Pradesh 547 236 43 308 56
2 Arunachal Pradesh 14 10 71 4 29
3 Assam 182 84 46 98 54
4 Bihar 551 180 33 369 67
5 Chandigarh 11 4 36 7 64
6 Chhattisgarh 616 165 27 451 73
7 Dadra & Nagar Haveli 12 6 50 6 50
8 Daman & Diu 10 2 20 8 80
9 Delhi 115 26 23 89 77
10 Goa 70 41 59 29 41
11 Gujarat 738 254 34 475 64
12 Haryana 643 184 29 454 71
13 Himachal Pradesh 95 36 38 59 62
14 Jammu & Kashmir 225 83 37 142 63
15 Jharkhand 212 86 41 126 59
16 Karnataka 1380 415 30 949 69
17 Kerala 1240 454 37 779 63
18 Madhya Pradesh 1343 502 37 838 62
19 Maharashtra 1487 437 29 1041 70
20 Meghalaya 17 6 35 11 65
21 Odhisha 1103 395 36 705 64
22 Pondicherry 6 5 83 1 17
23 Punjab 613 129 21 482 79
24 Rajasthan 829 346 42 481 58
25 Tamil Nadu 587 345 59 242 41
26 Telangana 377 66 18 308 82
27 Tripura 28 21 75 7 25

28 Uttar Pradesh 629 95 15 534 85
29 Uttarakhand 44 21 48 23 52
30 West Bengal 899 310 34 589 66
Total 14623 4944 34 9615 66
Note: 64 wells show no change in water level

Annexure -III

Annexure referred in reply to Lok Sabha Unstarred Question No. 2349 dated 16.03.2017 regarding "Preservation of Ground Water"

Number of Central Water Commission stations having concentration more than permissible limits of BIS
Chemical Parameter No. of stations having concentration more than permissible limits of IS 10500:2012
pH 12
Electrical Conductivity 3
Magnesium 1
Total Hardness 2
Chloride 1
Sulphate 1
Iron 22
Fluoride 15
Dissolved Oxygen 17
Biochemical Oxygen Demand 36
Cadmium 7
Chromium 14
Copper 49
Lead 47
Nickel 73
Iron 183